

Software Requirement Specification for Stock Maintenance Sys.

1. Introduction:

1.1 Purpose of this Document:

The purpose of this document is to define the requirements for the development of the Stock Maintenance System (SMS).

1.2 Scope of this Document:

This document covers the objective of the SMS, describing how it will manage stock, improve efficiency, and provide value to the business. It also includes an estimation of the development costs.

1.3 Overview:

The SMS will automate the process of tracking inventory, managing stock levels, and generating reports, making stock control and management more effective for users.

2. General Description:

The SMS will help users efficiently manage stock levels, track sales levels and generate alerts for low inventory. The system will be used by business owners, managers and warehouse personnel and reduce manual errors.

3. Functional Requirements:

3.1 Stock Management: Users can add, update & delete stock items.

3.2 Inventory Tracking: Tracks stock levels in real-time and sends alerts for low stock.

3.3 Sales Tracking: Record sales and update & stock performance reports.

4. Interface Requirements:

- 4.1 UI: A web-based, user-friendly interface.
- 4.2 Database Interface: Connection to a database for storing inventory, sales data and transaction history.
- 4.3 External Interface: Integration with external systems for data sharing (e.g. suppliers and sales platforms).

5. Performance Requirements:

- 5.1 Response Time: The system should update stock information in real time, with a max response time of 2 seconds.
- 5.2 Simultaneous Users: Must support upto 1000 users (concurrent).
- 5.3 Error Rate: The system should have an error rate of less than 0.5% for transaction processing.

6. Design Constraints:

- 6.1 Platform: The SMS will be web-based and accessible through all major browsers.
- 6.2 Database: SQL-based database for efficiency.
- 6.3 Security Constraints: Only authorized personnel will have access to sensitive stock & sales data.

7. Non Functional Attributes:

- 7.1 Security: The system will ensure access with encryption for sensitive data.
- 7.2 Portability: The system will work across different devices, including desktops, mobiles.
- 7.3 Scalability: Designed to handle increased users and stock items as the business grows.
- 7.4 Reliability: The system will maintain 99.9% uptime.

uptake to ensure consistency

8. ~~Project~~

8. ~~Project~~ Schedule and Budget:

8.1 Development Time: Estimated completion within 4 months.

8.2 Budget: Total budget of \$40,000.

~~RS - 5,000~~

RS - 5,000

DES - 20,000

VER - 10,000

SE - 5,000